

IES Report

ZipThree® | 707 | 85° Asymmetric , downlight only | 80 CRI | SO

707-Z3-4-48-XX-XX-X-0-Z-SO-35-A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	86	88	90
Total Lumens, 4' rail length (1219mm)	2176	2245	2291	2336
Lumens per foot (305mm)	544	561	573	584
Input Power (W), 4' rail length (1219mm)	26.2	26.2	26.2	26.2
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	85	85	85	85

Due to the large number of options in Vode’s product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_SO_35_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704240 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z3-48-Z-SO-35-A1
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 85 deg asymmetric down, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	26.33
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	61027	58762	38369
55	55402	53540	34358
65	47263	45241	28686
75	38587	36524	22079
85	30639	26962	14707

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04
5	1028.96	1028.96	1027.78	1025.42	1023.06	1019.52	1014.80	1010.08	1004.18	998.28
10	1130.44	1129.26	1126.90	1123.36	1118.64	1112.74	1104.48	1096.22	1085.60	1072.62
15	1194.16	1192.98	1190.62	1187.08	1180.00	1172.92	1163.48	1152.86	1139.88	1124.54
20	1223.66	1222.48	1220.12	1215.40	1210.68	1202.42	1192.98	1181.18	1168.20	1150.50
25	1221.30	1221.30	1218.94	1215.40	1209.50	1202.42	1194.16	1182.36	1169.38	1152.86
30	1191.80	1191.80	1189.44	1185.90	1181.18	1175.28	1167.02	1156.40	1144.60	1130.44
35	1136.34	1136.34	1135.16	1131.62	1128.08	1122.18	1116.28	1106.84	1096.22	1082.06
40	1056.10	1056.10	1054.92	1052.56	1050.20	1045.48	1039.58	1032.50	1023.06	1011.26
45	953.44	953.44	952.26	951.08	948.72	945.18	940.46	934.56	927.48	918.04
50	833.08	833.08	831.90	830.72	828.36	826.00	822.46	817.74	811.84	804.76
55	702.10	702.10	700.92	700.92	698.56	696.20	693.84	689.12	684.40	678.50
60	568.76	568.76	568.76	567.58	566.40	564.04	560.50	558.14	553.42	548.70
65	441.32	440.14	440.14	438.96	437.78	436.60	434.24	430.70	427.16	422.44
70	325.68	324.50	324.50	324.50	323.32	322.14	319.78	317.42	313.88	310.34
75	220.66	220.66	219.48	219.48	218.30	217.12	215.94	213.58	211.22	208.86
80	130.98	130.98	130.98	129.80	129.80	128.62	126.26	125.08	122.72	120.36
85	59.00	59.00	59.00	59.00	57.82	56.64	55.46	54.28	53.10	51.92
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
 Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04
5	991.20	982.94	974.68	965.24	956.98	946.36	936.92	926.30	915.68	905.06
10	1059.64	1044.30	1027.78	1010.08	991.20	971.14	949.90	927.48	905.06	882.64
15	1106.84	1086.78	1064.36	1039.58	1013.62	984.12	953.44	920.40	886.18	851.96
20	1132.80	1109.20	1083.24	1054.92	1023.06	986.48	947.54	906.24	860.22	815.38
25	1133.98	1110.38	1083.24	1051.38	1017.16	975.86	929.84	880.28	824.82	770.54
30	1111.56	1089.14	1063.18	1030.14	994.74	949.90	899.16	843.70	781.16	718.62
35	1066.72	1045.48	1020.70	991.20	954.62	909.78	856.68	797.68	729.24	659.62
40	997.10	979.40	956.98	929.84	895.62	853.14	800.04	738.68	667.88	594.72
45	906.24	890.90	872.02	847.24	817.74	777.62	728.06	667.88	599.44	520.38
50	795.32	782.34	767.00	746.94	720.98	687.94	640.74	585.28	520.38	444.86
55	670.24	660.80	649.00	632.48	611.24	582.92	545.16	495.60	435.42	369.34
60	541.62	533.36	523.92	510.94	494.42	470.82	440.14	397.66	350.46	293.82
65	417.72	410.64	402.38	394.12	379.96	362.26	338.66	306.80	267.86	225.38
70	305.62	299.72	292.64	284.38	274.94	260.78	244.26	221.84	192.34	161.66
75	205.32	200.60	194.70	188.80	181.72	172.28	160.48	145.14	126.26	107.38
80	118.00	115.64	112.10	108.56	103.84	97.94	90.86	81.42	70.80	60.18
85	49.56	48.38	47.20	44.84	42.48	40.12	36.58	33.04	28.32	24.78
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
 Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04	918.04
5	895.62	883.82	874.38	863.76	854.32	844.88	836.62	828.36	820.10	814.20
10	859.04	835.44	813.02	790.60	768.18	748.12	729.24	711.54	695.02	679.68
15	816.56	781.16	745.76	711.54	677.32	646.64	619.50	593.54	568.76	548.70
20	768.18	718.62	673.78	628.94	586.46	548.70	513.30	482.62	454.30	431.88
25	712.72	654.90	598.26	547.52	496.78	455.48	417.72	385.86	357.54	335.12
30	652.54	584.10	522.74	467.28	414.18	371.70	335.12	303.26	278.48	257.24
35	587.64	513.30	448.40	391.76	339.84	298.54	265.50	236.00	214.76	195.88

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CANDELA TABULATION - (Cont.)

40	519.20	442.50	377.60	322.14	273.76	237.18	207.68	182.90	164.02	148.68
45	446.04	374.06	312.70	261.96	218.30	186.44	161.66	141.60	126.26	115.64
50	375.24	307.98	252.52	208.86	172.28	145.14	125.08	109.74	99.12	90.86
55	305.62	247.80	199.42	162.84	134.52	113.28	97.94	86.14	77.88	71.98
60	240.72	194.70	155.76	126.26	102.66	87.32	76.70	68.44	62.54	57.82
65	182.90	146.32	116.82	96.76	79.06	67.26	59.00	53.10	48.38	46.02
70	132.16	106.20	84.96	69.62	57.82	49.56	43.66	38.94	36.58	34.22
75	88.50	70.80	57.82	47.20	38.94	34.22	30.68	27.14	24.78	23.60
80	50.74	41.30	33.04	28.32	23.60	20.06	17.70	16.52	15.34	14.16
85	21.24	17.70	14.16	11.80	10.62	9.44	8.26	8.26	7.08	7.08
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	918.04	918.04	918.04	918.04	918.04	918.04	918.04
5	808.30	802.40	798.86	795.32	792.96	791.78	790.60
10	666.70	656.08	646.64	639.56	634.84	631.30	630.12
15	531.00	515.66	503.86	494.42	487.34	483.80	482.62
20	411.82	396.48	383.50	374.06	366.98	362.26	361.08
25	315.06	300.90	287.92	279.66	272.58	269.04	267.86
30	239.54	226.56	215.94	207.68	201.78	199.42	198.24
35	181.72	169.92	161.66	154.58	151.04	147.50	147.50
40	138.06	128.62	121.54	116.82	114.46	112.10	112.10
45	106.20	100.30	95.58	93.22	90.86	89.68	88.50
50	84.96	80.24	77.88	75.52	74.34	73.16	73.16
55	68.44	64.90	63.72	61.36	60.18	60.18	60.18
60	55.46	53.10	51.92	50.74	49.56	49.56	48.38
65	43.66	41.30	40.12	40.12	38.94	38.94	38.94
70	31.86	30.68	29.50	29.50	28.32	28.32	28.32
75	22.42	21.24	20.06	20.06	20.06	18.88	18.88
80	12.98	12.98	12.98	11.80	11.80	11.80	11.80
85	7.08	5.90	5.90	5.90	5.90	5.90	4.72
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	329.07	N.A.	14.40
0-30	687.10	N.A.	30.10
0-40	1107.02	N.A.	48.50
0-60	1876.78	N.A.	82.20
0-80	2248.94	N.A.	98.50
0-90	2284.33	N.A.	100.00
10-90	2197.86	N.A.	96.20
20-40	777.95	N.A.	34.10
20-50	1196.01	N.A.	52.40
40-70	1013.21	N.A.	44.40
60-80	372.15	N.A.	16.30
70-80	128.71	N.A.	5.60
80-90	35.40	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2284.33	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.47
10-20	242.60
20-30	358.03
30-40	419.92
40-50	418.06
50-60	351.70
60-70	243.45
70-80	128.71
80-90	35.40
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

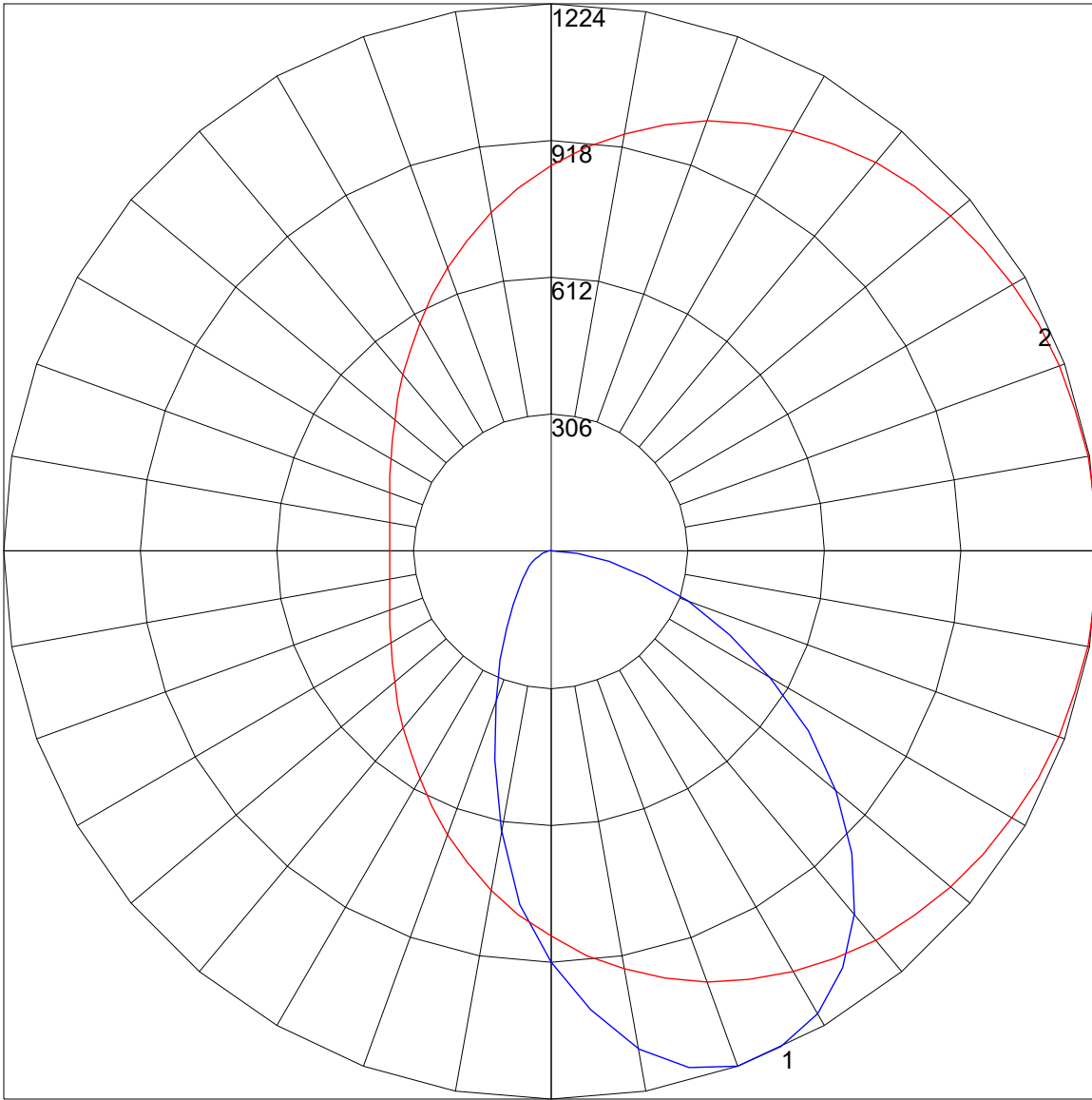
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	52	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1223.66 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)